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Three (AFRAPT) students were in residence in Princeton University's Department of Mechanical and Aerospace Engineering during the subject period. Two continue their studies and one completed his M.S.E. thesis and accepted a position in the Gas Turbine Division of General Electric Co., Cincinnati, OH. Keywords:

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for the period

1 September 1988 to 31 August 1989

AFRAPT TRAINEE PROGRAM

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April, 1990

During the grant period 1 September 1988 to 31 August 1989, three Air Force Research in Aero Propulsion Technology (AFRAPT) trainees were in residence in Princeton University's Department of Mechanical and Aerospace Engineering. Mr. Jeffery L. Emdee is supervised by Prof. I. Glassman and he is performing research on understanding the oxidation processes of aromatic components of JP fuels. His research is supported under an AFOSR contract. Mr. Emdee is continuing for another year to complete his Ph.D. studies. The summer of 1989 his industrial sponsor was the United Technologies Research Center.

Mr. Kenneth Whaling is supervised by Prof. P. Ronney and his research concerns are fuel flammability limits. The research program is supported by Prof. Ronney's Young Presidential Investigators Grant. His industrial internship during the summer of 1989 was spent at Pratt and Whitney, Florida.

Mr. Robert Lawson was supervised by Prof. F.L. Dryer and performed research on burning of heavy fuels and some of their residual components. This effort was supported by EPRI. Mr. Lawson completed his M.S.E. thesis during the grant period and accepted a position with the Gas Turbine Division of the General Electric Company in Cincinnati.